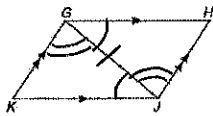


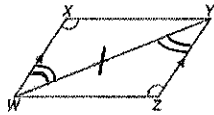
202 4.5 HW Key

4. Given: $\overline{GH} \parallel \overline{KJ}$, $\overline{GK} \parallel \overline{HJ}$
Prove: $\triangle GJK \cong \triangle JGH$



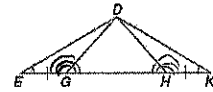
Statements	Reasons
① $\overline{GH} \parallel \overline{KJ}$ $\overline{GK} \parallel \overline{HJ}$	① Given
② $\angle HGJ \cong \angle GJK$ $\angle KJG \cong \angle HJG$	② If \parallel , alt int \angle s \cong
③ $\overline{GJ} \cong \overline{GJ}$	③ Reflexivity
④ $\triangle GJK \cong \triangle JGH$	④ ASA

5. Given: $\overline{XW} \parallel \overline{YZ}$, $\angle X \cong \angle Z$
Prove: $\triangle WXY \cong \triangle YZW$



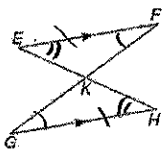
S	R
① $\overline{XW} \parallel \overline{YZ}$ $\angle X \cong \angle Z$	① Given
② $\angle XWY \cong \angle ZYW$	② If \parallel alt int \angle s \cong
③ $\overline{WY} \cong \overline{WY}$	③ Reflexivity
④ $\triangle WXY \cong \triangle YZW$	④ AAS

7. Given: $\angle E \cong \angle K$, $\angle DGH \cong \angle DHG$
 $\overline{EG} \cong \overline{KH}$
Prove: $\triangle EGD \cong \triangle KHD$



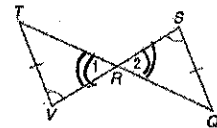
S	R
① $\angle E \cong \angle K$ $\angle DGH \cong \angle DHG$ $\overline{EG} \cong \overline{KH}$	① Given
② $\angle DGH \cong \angle DGE$ are suppl.	② Suppl. \angle s \cong
$\angle DHG \cong \angle DHK$ are suppl.	
③ $\angle DGE \cong \angle DHK$	③ Suppl. of \angle s are \cong
④ $\triangle EGD \cong \triangle KHD$	④ ASA

9. Given: $\overline{EF} \parallel \overline{GH}$, $\overline{EF} \cong \overline{GH}$
Prove: $\overline{EK} \cong \overline{KH}$



S	R
① $\overline{EF} \parallel \overline{GH}$ $\overline{EF} \cong \overline{GH}$	① Given
② $\angle E \cong \angle H$, $\angle F \cong \angle G$	② If \parallel , alt int \angle s \cong
③ $\triangle EFK \cong \triangle HGK$	③ ASA
④ $\overline{EK} \cong \overline{KH}$	④ CPCTC

11. Given: $\angle V \cong \angle S$, $\overline{TV} \cong \overline{QS}$
Prove: $\overline{VR} \cong \overline{SR}$



S	R
① $\angle V \cong \angle S$ $\overline{TV} \cong \overline{QS}$	① Given
② $\angle 1 \cong \angle 2$	② Vertical \angle s \cong
③ $\triangle TVR \cong \triangle QSR$	③ AAS
④ $\overline{VR} \cong \overline{SR}$	④ CPCTC